

**PORTABLE CD-ROM  
USER'S MANUAL**

**WITH CD-ROM+ CARD**

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EXP MEMORY PRODUCTS.**

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Reorient or relocate the receiving antenna.

Increase the Distance between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

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## INTRODUCTION

The PORTABLE CD-ROM brings in the latest mobile computing technology to notebook computer users with portability and convenience. The PORTABLE CD-ROM compliant with the PCMCIA 2.1(PC Card) standard. Featuring flexible power options, the CD-ROM drive may operate on either AC power or batteries. It is designed for both business and entertainment solutions.

## SYSTEM REQUIREMENTS

1. Notebook or desktop computer with a PCMCIA 2.1 Type I, II or III slot.
2. MS-DOS Version 6.0 or higher with MSCDEX.EXE (for DOS/Windows users only) or Windows 95.
3. I/O Port 200-207 must be available for the Game Port I/O(optional).

## FEATURES

- Complies with PCMCIA 2.1 Standard
- MSCDEX compatible
- Easy-to-install device driver software
- Ultra slim PCMCIA Card  
85.6 x 54.0 x 3.3 mm (Type I)
- CD-ROM Drive  
Size: 164 x 250 x 50mm  
Weight ≤ 1.35 Kg
- PCMCIA power consumption: +5V/300 mA (Standby), +5V/500 mA (max.)
- Power source: AC adapter or batteries (1.5V AA size x 8)
- Battery life ≥ 3 hours. (CD-ROM continuous video play)

- Windows 95 Ready
- Data capacity: 553MB (Mode 1) 635 MB (Mode 2)
- Motorized front tray loading
- Supports CD-Audio, CD-XA, CD-ROM mode 1 and 2, Multi-session Photo CD
- Audio function: Headphone output jack with volume control, Audio line-in jack
- Game Adapter (option)  
Size: 2.5"x 2.5"x 0.8"  
Weight : 2 oz  
Detachable design

## PART NAMES AND FUNCTIONS

### FRONT PANEL OF THE CD-ROM DRIVE

#### Disc Tray:

This disc tray is used to insert the compact disc.

#### Load/Stop button:

- Press this button to load the disc tray.
- When playing an Audio CD, pressing this button will put it into the stop state.

#### Power Indicator:

- This indicator will light with a green LED when the power is on.
- This LED will blink when battery power is low.

#### Play/Skip: (for CD Audio operation only)

- If the drive is in the stop state, pressing this button will activate the drive to start playing.
- If the drive is in play state, pressing this button will skip to the next track.

#### Headphone Volume Control Knob:

This rotary knob is used to adjust the volume of the headphone jack.

#### Power On/Busy LED:

This LED will light with a green LED when power is on.

This LED will blink when the drive is accessing the disc.

#### Headphone Jack:

3.5mm audio headphone jack.

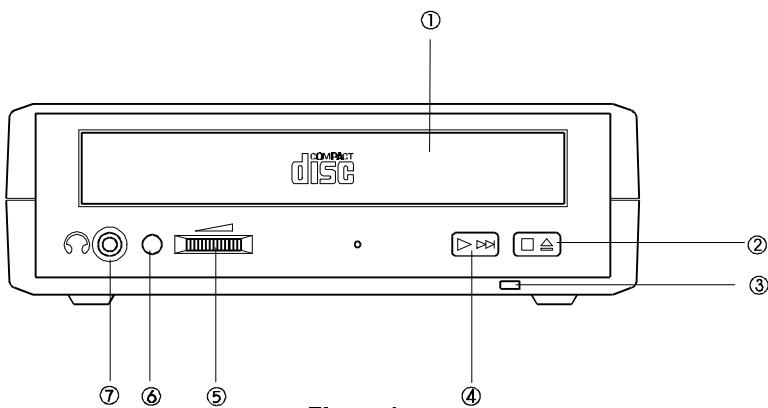


Figure 1

### REAR PANEL OF THE CD-ROM DRIVE

#### Interface Connector:

This interface connector connects to the PCMCIA interface card.

#### DC in Jack:

This jack connects to the AC adapter.

#### Line out Jack:

This jack outputs audio signal to an amplifier.

#### DC Source Switch

This switch selects DC power source for the CD-ROM drive.

There are two sources to choose from PC Direct or AC/Battery. Always keep the setting at AC/Battery, unless you are using CD-420 which you have the option to draw the power from PC Card slot.

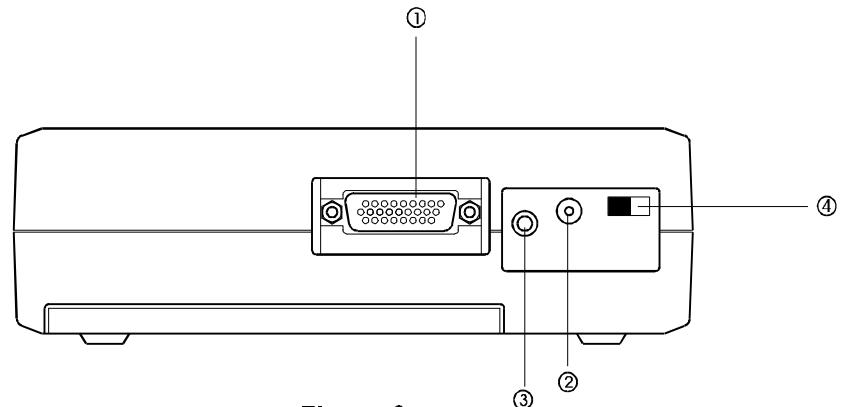


Figure 2

## POWER SOURCE

The PORTABLE CD-ROM can be either powered by the AC adapter or by the batteries as a flexible option. However, the AC adapter has a priority over the battery in powering the PD/CD-ROM. That means if you connect the AC adapter, the PORTABLE CD-ROM will operate on it regardless if the batteries are installed.

The PORTABLE CD-ROM will be turned on automatically when your computer is powered on and the PCMCIA interface card is connected to the computer and initialized. On the other hand, when you turn off your computer or disconnect the PCMCIA interface card from your computer, the PORTABLE CD-ROM will be powered off automatically. Such convenient design ensures that users will not waste the battery power if the CD-ROM is not in use.

The POWER LED indicates the power state, it will always light up when the power supply is in the normal condition. The LED will flash if the power is insufficient caused by a malfunctioning AC adapter or if the batteries are reaching the end their service life. In this case, remove the old batteries and replace with new batteries, or check your AC adapter to see if it is defective or improperly connected.

The Power Source Switch located at the back panel must be set at AC/Battery position at all time, unless you are using CD-420 which have the option to draw the power from the PC Card slot. However, you need to make sure your PC Card slot can supply 5V/1A to be able to power the CD-ROM directly.

## CONNECT THE AC ADAPTER

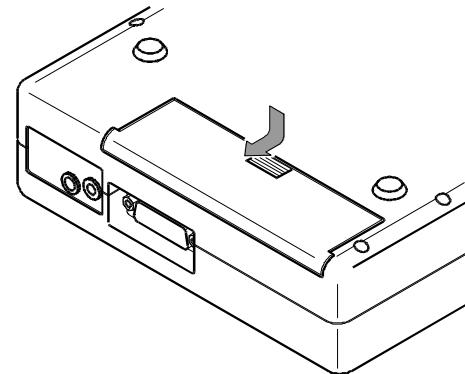
1. Connect the AC adapter plug to the DC IN jack at the rear panel of the CD-ROM.
2. Attach the AC adapter to the AC power outlet.

## INSTALLING THE BATTERIES

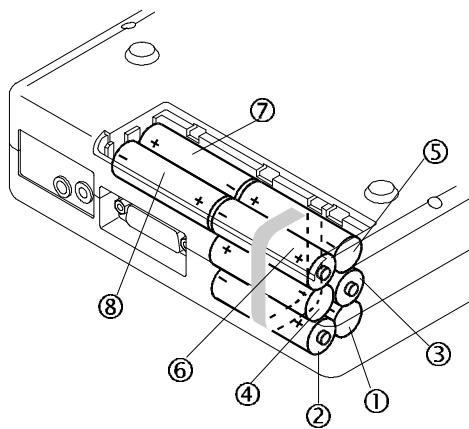
The PORTABLE CD-ROM requires eight AA size batteries (not included) for operation. When using alkaline batteries, the battery life may last for more than 3 hours if the PORTABLE CD-ROM is used in CD-ROM mode, it can be even longer when the PORTABLE CD-ROM is used in CD-Audio mode. You can also use NiCad rechargeable battery's which have a shorter service life. Both the rechargeable battery and the re-charger are NOT provided with this unit.

To install the batteries, follow the instruction below:

1. Remove the disc from the PD.
2. Power off the PD by disconnecting the PCMCIA interface card from your computer.
3. Turn over the PD drive and place horizontally.
4. Press and slide the battery lid in the direction of the arrow to remove it.



5. Install eight fresh AA batteries in the order as illustrated in Figure 4, and make sure polarities are aligned properly. It is recommended that you follow the order in the illustration to install the batteries with ease.
6. Please note that the battery ribbon must be arranged as shown in Figure 4. Otherwise, it will be difficult to remove the batteries.
7. Replace the battery lid.



## INSTALLING TH CD-ROM WITH GAME ADAPTOR

This user's manual is for CD-ROM DRIVE ONLY installation, if you want to install the CD-ROM drive with GAME ADAPTER(optional) please reference the -

### **"GAME PORT UPGRADE KIT FOR PORTABLE CD-ROM INSTALLATION MANUAL"**

## REMOVING THE BATTERIES

1. Remove the battery lid by sliding the cover in the direction of the arrow as shown in Figure 3.
2. Lift up the battery ribbon to eject the batteries from the battery compartment.

## NOTICE

- Use only the AC adapter provided with this unit.
- If you will not use the unit with the AC adapter for a long period of time, disconnect it from the AC power outlet.
- Do not mix old and new batteries, or different type of batteries (carbon and alkaline, etc.)
- Always remove old, weak or worn-out batteries promptly and dispose of them properly.
- If you will not use this unit for a long period of time, remove the batteries and store them in a cool, dry place.
- Thoroughly clean the battery compartment before inserting new batteries.

## HARDWARE INSTALLATION

1. Connect the PCMCIA interface card to the CD-ROM drive. Press firmly until the CD-ROM connector is seated, and tighten the two screws on the cable connector.
2. Place the CD-ROM drive in the horizontal position. The CD-ROM is designed to operate only in the horizontal position. Operating the CD-ROM drive in any abnormal position is not recommended.
3. Make sure that the cable of the PCMCIA interface card is firmly connected to the interface connector at the back panel of the CD-ROM drive.
4. Locate the PCMCIA slot of your computer or consult your computer user's manual for its location.
5. Align the PCMCIA interface card with the arrow sign pointing toward the computer's slot. (Please note that the card is keyed to guide for proper insertion.)
6. Slowly insert the PCMCIA interface card into the slot and press firmly until the connector is seated.
7. Turn the system ON to install the PORTABLE CD-ROM device driver. Please follow the Software Installation procedures.

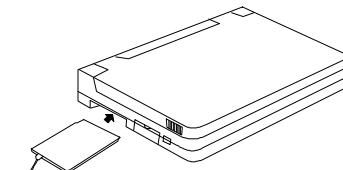


Figure 5

### NOTICE

You should connect the PCMCIA interface card to CD-ROM drive first before inserting the PCMCIA interface card into your computer. DO NOT connect/disconnect the CD-ROM PCMCIA interface card to/from the CD-ROM drive when the system is in the power-on state.

## SOFTWARE INSTALLATION FOR WINDOWS 95

### USING PORTABLE CD-ROM UNDER WINDOWS 95

The following dialog box will appear when you are using the PORTABLE CD-ROM under Windows 95 for the very first time.

If the dialog box does not appear and the CD-ROM folder can not be found in My Computer, please refer to the section titled "Enabling 32-Bit Card Support".

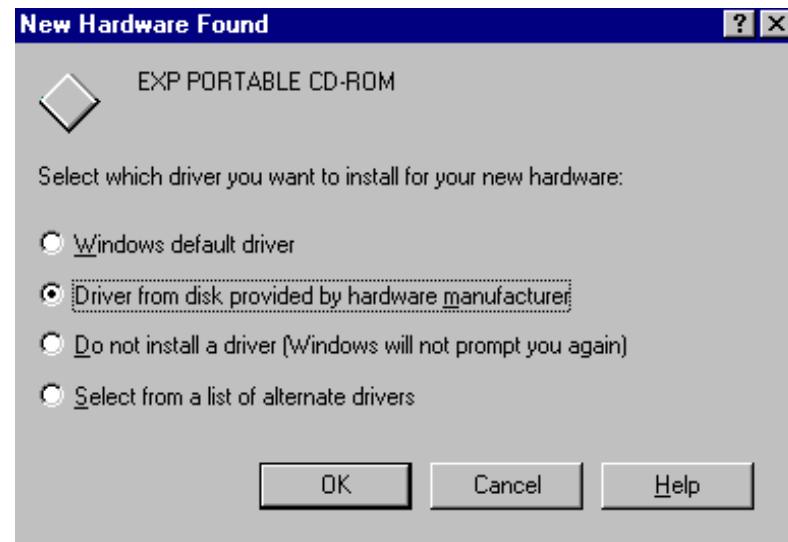


Figure 7

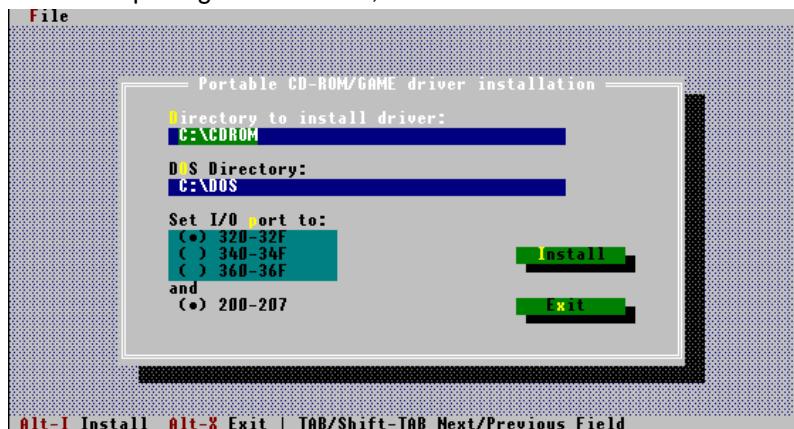
Select "Driver from disk provided by hardware manufacturer" and click on OK button, Windows 95 will then prompt you to insert the manufacturer's installation disk. Insert the PORTABLE CD-ROM device driver disk into your floppy drive. Specify the directory as A:\ or B:\ whichever containing the diskette and select OK.

Follow the on-screen instruction to continue. After finishing, go to "My Computer", there should be a drive icon for the CD-ROM drive.

## SOFTWARE INSTALLATION FOR DOS/WINDOWS 3.1

The INSTALL program helps you install the device driver into the computer easily. Please follow the instructions below to proceed with automatic installation.

1. Insert the device driver diskette into a floppy disk drive on your computer.
2. Change the working directory to the floppy drive containing the device driver diskette by typing “A:” or “B:” then press ENTER.
3. At the DOS prompt (A:> or B:>), type “**INSTALL**” followed by the ENTER key.
4. Press ENTER or click on the OK button to continue. When the opening screen appears, a dialog box will be displayed for you to specify the 1), directory to install the device driver; 2), the DOS directory to specify the location of the MSCDEX driver, 3), the I/O port and 4),the IRQ desired for the PORTABLE CD-ROM. Enter the directory you select to install the driver and press the TAB key to forward to the next field to indicate the DOS Directory. Press the TAB key again to set the I/O port. The default setting of the I/O ports are (320-32F and 200-207). After completing the selection, click on the **Install** button to continue.



## MANUAL INSTALLATION FOR DOS/WINOWWS 3.1

You may also manually install the CD-ROM device driver if the default setting conflicts with your system. Perform the following procedure to complete the manual installation.

1. Copy the files EXPCDG.EXE from the device driver disk to your hard disk.
2. Add “**LASTDRIVE=z**” to the *TOP* of your CONFIG.SYS file. If you already have a LASTDRIVE line with a letter other than Z, change it to Z.
3. Add the following lines to the *BOTTOM* of your CONFIG.SYS file:  
**DEVICE=drive:\path\EXPCDG.EXE /P:320 /G /D:MSCD001**  
where *drive:\path* specifies the directory containing the file EXPCDG.EXE.

Note: If your CONFIG.SYS file is already loaded with PCMCIA software, such as Cardsoft of SystemSoft or Cardtalk of Databook, *it is necessary to add the above line AFTER the PCMCIA software*. Otherwise, the PCMCIA interface card will not be initialized properly. To make sure if any PCMCIA software has been loaded in your system and to know more about PCMCIA(PC Card), please refer to the section titled “PCMCIA Software Information”.

EXPCDG.EXE is the device driver for the PORTABLE CD-ROM. The parameters are described as below:

/P is used to set the I/O ports, and the valid numbers are 320, 340 and 360. Each number represents the I/O port respectively. The default setting is **/P:320**.

/G is used to enable the GAME, the default I/O is 200-207. Do not use this parameter when installing CD-ROM only.

*/D* is used to set the device name. It can be any name up to 8 characters. This name must be the same as the name you will specify in the MSCDEX.EXE option */D: name* in the next step.

4. Add the following line at the *TOP* of your AUTOEXEC.BAT:

```
drive:\path\MSCDEX.EXE /D:MSCD001 /M:4
```

where *drive:\path* specifies the DOS directory or the directory containing the file MSCDEX.EXE.

Note: If your AUTOEXEC.BAT file loads a menu program such as DOSSHELL or Windows, you have to add the above line to start your menu program. Otherwise, MSCDEX will not have a chance to load before your menu program begins.

The example above shows the default setting. The */D:* switch indicates the device name. It MUST be the same name as you specified by the */D:* switch of EXPCDG.EXE in your CONFIG.SYS file. The */M:* switch indicates how much memory to allocate for caching information on the CD-ROM. The default */M:4* caches 8KB.

For more information about the switches of MSCDEX, please type “**help MSCDEX**” at the DOS prompt.

5. Now, reboot your computer to activate the CD-ROM drive.

## ENABLING 32-BIT CARD SUPPORT OF WINDOWS 95

Your system should be ready for PCMCIA socket support prior to operating the PORTABLE CD-ROM. To check whether your computer is PCMCIA Socket supported, first, double-click on the “System” icon from “Control Panel” folder (you can select the “Control Panel” under “Settings” from the “Start” menu to open the “Control Panel” folder).

Click on the Device Manager Tab. If “PCMCIA Socket” is found with a cross (x) sign next to the PCMCIA Controller as Figure 9, it means the PCMCIA device driver is not using 32-Bit Card Support.

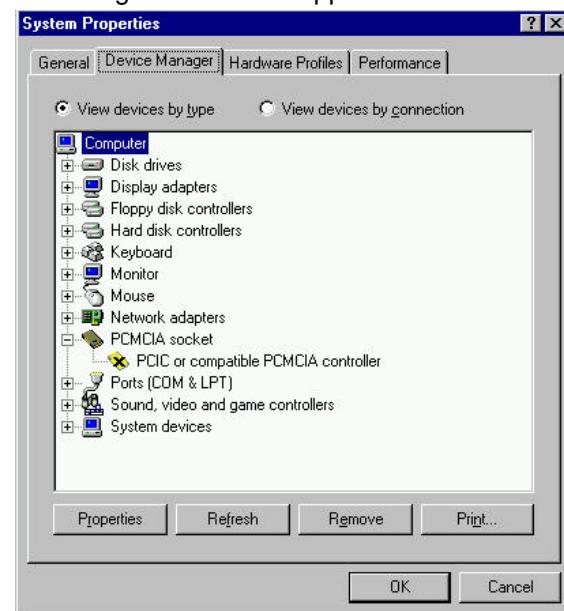


Figure 9

In this case, double click on the PCMCIA Controller, and a dialog box will be displayed as below. Please place a check mark next to the current configuration of Device usage box, then select OK.



**Figure 10**

After the PCMCIA 32-Bit Card support is installed, Windows will ask you to reboot your computer. Then you should refer to the first section titled "Using CD-ROM Under Windows 95" to configure the PORTABLE CD-ROM.

If the PCMCIA Socket is not found, then you must add a PCMCIA socket to your system. Please click on the "Add New Hardware" icon in the Control Panel folder and select "PCMCIA socket". Select the appropriate type of PCMCIA Controller that matches with yours and follow the on-screen instructions.

## USING THE CD-ROM WITH A COMPUTER

Make sure the AC adapter is properly connected or the batteries are installed.

### CAUTION

Connect the PCMCIA interface cable to the CD-ROM drive before inserting the PCMCIA interface card into your computer. DO NOT connect/disconnect the PCMCIA interface cable to/from the CD-ROM drive while the card is inserted and the system is in power-on state.

## SETTING UP YOUR CD-ROM SOFTWARE

### DOS/Windows 3.x

Most of the CD-ROM titles for Windows 3.1/3.11 contain the SETUP.EXE or INSTALL.EXE program in the CD disc. You need to start either one of the programs to add a Program Group and its icons into your computer, and perform the following,

- 1) In Program Manager, click "File" then click "Run"
- 2) Type in **D:** (or the drive letter assigned for CD-ROM) **SETUP.EXE** or **INSTALL.EXE**
- 3) Follow the on-screen instructions.
- 4) After complete setting up, click the icon for the program.

### Windows 95

The CD-ROM for the Windows 95 titles include the **AUTO RUN** feature. This means when you close the disc cover with this type of CD disc inside, Windows 95 will start the opening screen automatically. You can add the program, browse content of the CD, etc. from this screen.

The other procedure is from '**Control Panel**.' Click on '**Add/Remove Programs**' icon, click on the '**Install**' button then follow the on screen instructions.

**NOTE:**

While operating the CD-ROM, the speed of your computer's CPU and display card will dominate the overall performance, especially when playing full motion video. Slow display speed often causes "still frames". In our testing, some computers are capable of performing as high as 15 frames/sec; however, some can only achieve 2 frames/sec.

## **HOW TO PLAY THE AUDIO CD**

### **Windows 3.1**

The CD-Audio CDs can be played on your PCMCIA CD-ROM by using CD Audio software utilities, such as the Media Player in Windows 3.1. To use Media Player, you must have the [MCI] CD Audio driver installed. Make sure the CD-Audio disc is installed in the CD-ROM drive. The CD Audio driver is installed through the Control Panel. Go into the Drivers and ADD **[MCI] CD Audio**. The installation will require one of the Windows diskettes to install the driver.

The driver file name is MCICDA.DRV. This should be in the System directory. The system.ini should then have the driver listed in the section

```
[mci]  
CDAudio=mcicdadrv
```

### **The mplayer.ini should have:**

```
[Options]  
CDAudio=62
```

```
[Devices]  
CDAudio=2553, CD Audio
```

### **Windows 95**

Click on "Start" button then choose "Programs", then "Accessories", then "Multimedia" then click on the **CD Player** Icon.

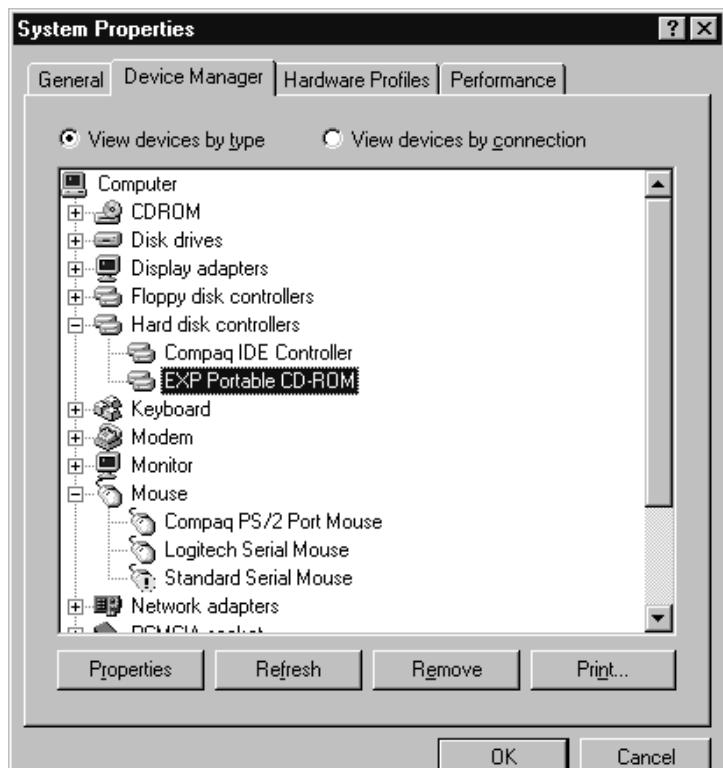
If you do not have the Accessories Group or Multimedia Group, the options may have not installed during Windows 95 set up. Click the Start button, go to Setting => Control Panel click on Add/Remove Programs then Windows Setup Tab. Place a check mark on the box for missing programs and Windows 95 setup will install the **CD Player** for you.

## TROUBLE SHOOTING

### Windows 95

The Windows 95 32-bit mode plug-n-play drivers will automatically allocate the hardware resources for PORTABLE CD-ROM, therefore, you do not need to choose the I/Os during the installation. However, if the system is not working properly you still can select the I/Os by proper procedures. Be sure you have the card inserted before doing the configuration change.

1. Go to "Control Panel"
2. Double click at "System" icon
3. Select "Device Manager"
4. Click at "Hard Disk Controller" and highlight "EXP Portable CD-ROM"



5. Double click at the device you choose and select the "Resource" at the pop-up windows, uncheck the "use automatic settings"
6. You can change the I/Os or IRQs by clicking at them
7. Make sure the "Conflicting device list" shows "No conflicts".
8. Click "OK" when finishing, system may ask you to reboot the computer to enable the new settings

### Remove or re-install the driver

If you want to remove, re-install or upgrade the driver you have installed, you need to remove the old driver first which can be done by highlighting the EXP device driver under "Device Manager", then click at "Remove" button.

### DOS/Windows3.X

After rebooting your computer, the following messages will be displayed on your screen, which are generated by EXPCDI.EXE and MSCDEX.EXE.

#### Configure card to:

I/O Port:320-32F

Device Name: MSCD001

EXP portable CD-ROM card is present in socket 1

.

.

C:\DOS\MSCDEX.EXE /D:MSCD001 /M:4

MSCDEX Version 2.25

Copyright © Microsoft Corp. 1986-1991.

Drive D: = Driver MSCD001 unit 0

If any error occurs or the PORTABLE CD-ROM does not work, you should reboot your computer again. When the system displays 'Starting MS-DOS...', press the F8 key to make the system executes the CONFIG.SYS and AUTOEXEC.BAT step by step, so that you can consistently press the 'Y' key to see each command's message. You can always run the INSTALL.EXE to change the I/O port setting.

### **Error messages generated by EXPCDG.EXE:**

**Error: PCMCIA card is not present!**

If the above message appears, it means EXPIDI.EXE can't find any PCMCIA card in your PCMCIA slots. Make sure the card is inserted firmly.

**Error: Illegal I/O port!**

The above message means invalid I/O ports in the EXPIDI.EXE line of CONFIG.SYS has been selected. The legal I/O port numbers are: 320, 340, and 360.

**Error: There is no available 4K memory for mapping!**

The above message means EXPIDI can't find available 4K memory between C000:0 to EFFF:0. This error can be corrected by changing the EMM386 line of CONFIG.SYS to exclude at least 4K memory for mapping. For example,

```
DEVICE=C:\DOS\EMM386.EXE. X=D000-D3FF
```

**Error: The INTEL 82365SL PCMCIA controller is not detected in your system. You should contact your dealer to get PCMCIA support software.**

The above message means the PCMCIA controller for your system is not INTEL 82365SL compatible. In this case, you should install PCMCIA support software which should be supplied by the notebook manufacturer.

**CD-ROM Drive is not found!**

The above message means EXPCDG.EXE can't find the PORTABLE CD-ROM drive. Please make sure the CD-ROM drive is properly connected to the PCMCIA interface card cable and the power cord is connected(or batteries are loaded).

### **Error message generated by MSCDEX.EXE:**

**Device driver not found: 'MSCD001'**

This means that EXPCDG.EXE is not installed properly or you have entered a different /D: switch in the MSCDEX line of AUTOEXEC.BAT. The /D:

switch must be the same as the /D: switch in the EXPCDG.EXE line of CONFIG.SYS.

If the error message displayed is none of the above, please contact EXP customer support at (516)-496-7629 or our internet On-Line technical support at <http://www.expnet.com>.

## **PCMCIA(PC CARD) SOFTWARE INFORMATION**

If you have installed the PCMCIA software, such as SystemSoft's CardSoft or Databook's Cardtalk, then EXPCDG.EXE will call this PCMCIA software to enable the card. If you don't have one, the EXPCDG still can directly access your hardware to enable the card. In this case, your computer should have an Intel 82365SL Personal Computer Interface Controller (PCIC) or another compatible controller.

PCMCIA software contains several components: Socket services, Card Services, Resource Initialization Utility and Card Installation Utility. The remainder of this section will explain the four components and list the device driver names for the major PCMCIA software.

Socket Services provide the interface between a system's BIOS and the host controller chips (such as the Intel 82365SL PCIC, Vadem 468, etc. ) Socket Services includes functions such as configuring a socket for an I/O or memory interface and controlling socket power voltages. The Socket Services driver you have varies with the host computer chip of your computer.

Card Services provides the interface between the PC Card and the PCMCIA sockets. Card Services must be aware of the I/O, IRQ, and memory resources already used by the system so it can accurately assign unused resources to the PC Cards.

To ensure Card Services will operate reliably regardless of the system it is installed on, some PCMCIA software provides its own resource initialization utility, which will check I/O ports, IRQs, and memory addresses and then report that information to Card Services.

The Card Installation Utility detects the insertion and removal of PC cards, and automatically determines the card type upon insertion so the card and socket will be configured properly.

The device driver names of the major PCMCIA software are listed below:

Software/Device Driver	SystemSoft CardSoft	Phoenix	Award Cardware	IBM ThinkPad
Socket Services	SS365SL.EXE, SS365LP.EXE, SSCIRRUS.EXE, SSDBOOK.EXE, SVADEM.EXE, SSVLSI.EXE	PCMSS.EXE	SSPCIC.EXE	IBMDSS02.SYS
Card Services	CS.EXE	PCMCS.EXE	PCCS.EXE	IBMDOSCS.SYS
Resource Initialization Utility	CSALLOC.EXE	PCMRMAN.SYS	PCRM.EXE	DICRMU02.SYS
IDE/ATA Driver	ATADRV.EXE	PCMATA.SYS		
SRAM Card Driver	MTSRAM.EXE			
Flash Card Support	MTAA.EXE, MTAB.EXE, MTI1.EXE MTI2P.EXE			
Memory Card Driver	MEMDRV.EXE			
Card Installation Utility	CARDID.EXE	PCMSCD.EXE	PCENABLE.EXE	AUTODRV.SYS
Card Services Power Management	CS_APM.EXE			\$ICPMDS.SYS

If you are not sure which PCMCIA software you are using, you may check it by typing **TYPE CONFIG.SYS** at the DOS prompt followed by the ENTER key. The file should come up and look like one of the following examples.

#### SYSTEMSOFT PCMCIA SOFTWARE SAMPLE CONFIG.SYS FILE

```
LASTDRIVE=Z
DEVICE=C:\DOS\HIMEM.SYS
DEVICE=C:\DOS\EMM386.EXE NOEMS X=D000-D3FF
FILES=40
BUFFERS=20
STACKS=9,256
DEVICEHIGH=C:\CARSOFT\SS36SSL.EXE
DEVICEHIGH=C:\CARDSOFT\CS.EXE
DEVICEHIGH=C:\CARDSOFT\CSALLOC.EXE
REM** The REM's should be removed from the following
REM** lines to enable memory and hard drive card support
REM** DEVICEHIGH=C:\CARDSOFT\ATADRV.EXE
REM** DEVICEHIGH=C:\CARDSOFT\MTSRAM.EXE
REM** DEVICEHIGH=C:\CARDSOFT\MTDDRV.EXE
DEVICEHIGH=C:\CARDSOFT\CARDID.EXE
DEVICE=C:\CDROM\EXPCDG.EXE /P:320 /D:MSCD001
```

#### PHOENIX PCMCIA SOFTWARE SAMPLE CONFIG.SYS FILE

```
LASTDRIVE=Z
DEVICE=C:\DOS\HIMEN.SYS
DEVICE=C:\DOS\EMM386.EXE NOEMS X=D000-D3FF
DOS=HIGH, UMB
STACKS=9,256
DEVICE=C:\PCMPLUS3\CNFIGNAME.EXE/DEFAULT
DEVICE=C:\PCMPLUS3\PCMSS.EXE
DEVICE=C:\PCMPLUS3\PCMCS.EXE
DEVICE=C:\PCMPLUS3\PCMRMAN.EXE
DEVICE=C:\PCMPLUS3\PCMSCD.EXE
DEVICE=C:\CDROM\EXPCDG.EXE /P:320 /D:MSCD001
```

#### AWARD PCMCIA SOFTWARE SAMPLE CONFIG.SYS FILE

```
LASTDRIVE=Z
DEVICE=C:\DOS\HIMEN.SYS
DEVICE=C:\DOS\EMM386.EXE NOEMS X=D000-D3FF
FILES=40
BUFFERS:20
STACKS=9,256
DEVICE=C:\CARDWARE\SSPCIC.EXE
DEVICE=C:\CARDWARE\PCCS.EXE
DEVICE=C:\CARDWARE\PCRM.EXE/AUTODETECT
DEVICE=C:\CARDWARE\PCENABLE.EXE
DEVICE=C:\CDROM\EXPCDG.EXE /P:320 /D:MSCD001
```

## **IBM PCMCIA SOFTWARE SAMPLE CONFIG.SYS FILE**

```
LASTDRIVE=Z
DEVICEHIGH=C:\DOS\HIMEN.SYS /TESTMEM:OFF /MACHINE:2
DEVICEHIGH=C:\DOS\EMM386.EXE NOEMS X=D000-DFFF
BUFFERS=40
FILES=40
STACKS=9,256
DOS=HIGH
DEVICEHIGH=C:\THINKPAD\IBMDSS02.SYS /S0=2
DEVICEHIGH=C:\THINKPAD\IBMDOSCS.SYS
DEVICEHIGH=C:\THINKPAD\DICRMU02.SYS /MA=D000-DFFF
DEVICEHIGH=C:\THINKPAD\$ICPMDOS.SYS
DEVICE=C:\THINKPAD\AUTODRV.SYS C:\THINKPAD\AUTODRV.INI
REM FOLLOWING EXAMPLE ENABLE CD-ROM AND GAME PORT
DEVICE=C:\CDROM\EXPCDG.EXE /P:320 /G /D:MSCD001
```

## **POWER SAVING**

The PORTABLE CD-ROM may operate with an AC adapter or batteries. Use of the supplied AC Adapter will provide the power for use as a portable CD player, or to extend the computer's battery life.

The PORTABLE CD-ROM drive will automatically enter the sleep mode (spindle off) when it has not been accessed for about 5 minutes. Also, you can manually get to the sleep mode by removing the Compact Disc (CD) from your CD-ROM drive. The operating current will then be reduced to 120 mA.

## **NOTE:**

DO NOT disconnect the PCMCIA card from your CD-ROM drive while the computer power is ON.